

Title (en)  
WATER-BASED INK FOR INK-JET RECORDING

Title (de)  
WASSERBASIERTE TINTE FÜR TINTENSTRAHLAUFZEICHNUNG

Title (fr)  
ENCRE À L'EAU POUR IMPRESSION À JET D'ENCRE

Publication  
**EP 3978247 A4 20230712 (EN)**

Application  
**EP 20814179 A 20200507**

Priority  
• JP 2019102064 A 20190531  
• JP 2020018542 W 20200507

Abstract (en)  
[origin: EP3978247A1] A water-based ink for ink-jet recording includes: a resin-dispersed pigment; resin fine particles of which glass transition temperature is not less than 22 °C; a humectant including a humectant component of which vapor pressure at 20 °C is not less than 0.02hPa; and water. The water-based ink satisfies the following conditions (A) and (B): condition (A):  $8.8 \leq \beta/\alpha \leq 18.6$ , condition (B):  $2.4 \leq \beta/\gamma \leq 3.5$ ; in the conditions (A) and (B):  $\alpha$ : a viscosity (mPa·s) at 25 °C of the water-based ink in a case that an evaporation rate obtained by a formula (1) is 0%,  $\beta$ : a viscosity (mPa·s) at 25 °C of the water-based ink in a case that the evaporation rate obtained by the formula (1) is 50%, and  $\gamma$ : a viscosity (mPa·s) at 25 °C of the water-based ink in a case that the evaporation rate obtained by the formula (1) is 40%.

IPC 8 full level  
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Citation (search report)  
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• [X] JP 2010047727 A 20100304 - RICOH KK  
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• [X] JP 2018080255 A 20180524 - KAO CORP  
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• See references of WO 2020241196A1

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